

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Michael John Sabin

Serial No. 09/627,927

Filed: July 28, 2000

For: CRYPTOGRAPHY PRIVATE KEY  
STORAGE AND RECOVERY  
METHOD AND APPARATUS



) Art Unit: 2766

) Examiner:

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail, in an envelope addressed to:

Assistant Commissioner for Patents  
Box Missing Parts  
Washington, D.C. 20231

on 10-4-00 Teri Muir  
Date Teri Muir

**RESPONSE TO NOTICE TO FILE MISSING PARTS**

Honorable Assistant Commissioner  
for Patents  
Box Missing Parts  
Washington, D.C. 20231

Sir:

Responsive to the Notice to File Missing Parts dated September 22, 2000, please find enclosed herewith:

1. Copy of Assignment executed by the inventors;
2. Declaration and Power of Attorney executed by the inventor;

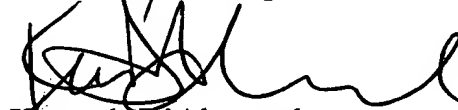
3. Check in the amount of \$1784.00 for filing fee and surcharge for assignee as a large entity calculated as follows:

Basic filing fee	\$710.00
1 Independent claim in excess of three	\$ 80.00
48 additional claims in excess of twenty	\$864.00
Surcharge	<u>\$130.00</u>
Total	\$1784.00

4. Copy of Notice to File Missing Parts.

In the event any variance exists between the amount enclosed and the patent office charges for filing the above-noted documents, including any fees required under 37 CFR 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, the Assistant Commissioner is hereby authorized to charge or credit the difference to our Deposit Account No. 50-0612. An additional copy of this page is enclosed.

Respectfully submitted,  
Sierra Patent Group, Ltd.



Kenneth D' Alessandro  
Reg. No.: 29,144

Dated: 10/4/00

Sierra Patent Group, Ltd.  
P.O. Box 6149  
Stateline, NV 89449  
(775) 586-9500

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Michael John Sabin

Serial No.: 09/627,927

Filed: July 28, 2000

For: CRYPTOGRAPHY PRIVATE  
KEY STORAGE AND RECOVERY  
METHOD AND APPARATUS



Group Art Unit: 2766

Examiner:

TC 2700 MAIL ROOM

OCT 23 2000

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Washington, D.C. 20231

On: 10-6-00 Teri Muir  
Dated Teri Muir

**REQUEST TO CORRECT FILING RECEIPT**

Honorable Assistant Commissioner  
for Patents  
Customer Service Center  
Washington, D.C. 20231

Sir:

RECEIVED  
FEB 07 2001  
Technology Center 2100

It is respectfully submitted that the Filing Receipt for the above-identified patent application has errors. The attorney docket number for the above is "ATMSP-003" and not "ATMSP-001; The correct spelling of the inventors name is "Michael John Sabin" and not "John Sabin, xp, and the word "CRYPTOGRAPHY" is incorrectly spelled in the Title.

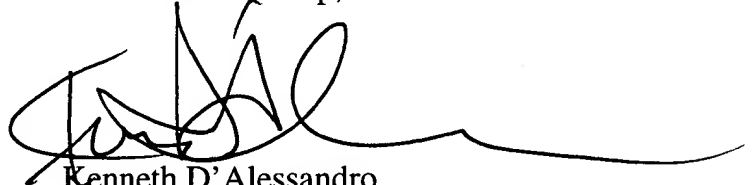
Enclosed please find a copy of the first page of the application showing the correct Docket Number, correct spelling of the inventors name and the correct title of the invention. Also enclosed is a copy of the filing receipt showing the corrections.

Please amend the Filing Receipt and other appropriate records to reflect the corrections of the above-identified application.

In the event any additional fee is required for filing the above-noted document, including any fees required under 37 CFR 1.136 for any necessary Extension of Time to make the filing of attached document timely, the Assistant Commissioner is hereby authorized to charge the fee to our Deposit Account No.: 50-0612. A duplicate copy of this page is enclosed.

Respectfully submitted,  
Sierra Patent Group, Ltd.

Dated: 10-6-00



Kenneth D' Alessandro  
Reg: No.: 29,144

Sierra Patent Group, Ltd.  
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Stateline, NV 89449  
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This application is submitted in the name of inventor Michael John Sabin, assignor to Atmel Corporation.



## SPECIFICATION

### CRYPTOGRAPHY PRIVATE KEY STORAGE AND RECOVERY METHOD AND APPARATUS

#### BACKGROUND OF THE INVENTION

##### 1. Field of the Invention

The present invention relates generally to cryptography systems. More particularly, the present invention relates to an apparatus and method for storing and recovering the private key in a public-key/private-key cryptography system.

##### 2. The Prior Art

The RSA (Rivest, Shamir, and Adelman) scheme is a popular form of public-key cryptography. The RSA scheme uses: a public key, consisting of a public modulus  $n$  and a public exponent  $e$ ; and a private key, consisting of the modulus  $n$  and a private exponent  $d$ . The public modulus  $n$  is an integer that is the product of two distinct prime factors  $p$  and  $q$ , i.e.,  $n = pq$ . The factors are secret information and not disclosed

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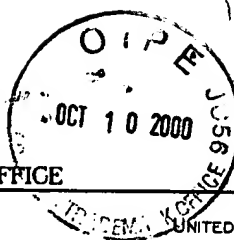
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## UNITED STATES PATENT AND TRADEMARK OFFICE



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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/627,927	07/28/2000	2766	0	ATMSP-001	8	68	4

Kenneth D'Alessandro  
Sierra Patent Group Ltd  
Post Office Box 6149  
Stateline, NV 89449

ATMSP-003

## FILING RECEIPT



\*OC000000005419639\*

Date Mailed: 09/22/2000

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

John Sabin <sup>omit</sup> NOT PROVIDED;

Continuing Data as Claimed by Applicant

Foreign Applications

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## Title

CRYPTOGRAPHY

Cryptography private key storage and recovery method and apparatus

Preliminary Class

380

COPY

Data entry by : BALL, ROSALIND

Team : OIPE

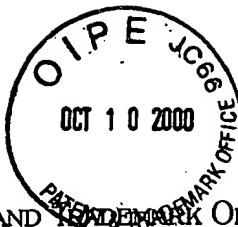
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/627,927	07/28/2000	John Sabin	ATMSP-001

Kenneth D'Alessandro  
Sierra Patent Group Ltd  
Post Office Box 6149  
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## FORMALITIES LETTER



\*OC000000005419640\*

Date Mailed: 09/22/2000

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

## Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 690 to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).*
- Total additional claim fee(s) for this application is \$942.
  - \$864 for 48 total claims over 20.
  - \$78 for 1 independent claims over 3.
- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 1762.

A copy of this notice **MUST** be returned with the reply.

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Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

10/13/2000 EXAMINER 00000025 09627927  
01 FC:101  
02 FC:102  
03 FC:103  
04 FC:105  
710.00  
80.00  
864.00  
130.00

